

ZELIKMAN, I.F.; ABDURAZAKOVA, S.Kh.

Method for rapid determination of moisture in sugar. Sakh. prom.
35 no.11:23-25 N '61. (MIRA 15:1)

1. Krasnodarskiy tekhnologicheskiy institut pishchevoy promy-
shlennosti (for Zelikman). 2. Sredneaziatskiy politekhnicheskiy
institut (for Abdurazakova).

(Sugar--Analysis and testing)

KHASANOV, A.K.; ZELIKMAN, I.F.

Experiments in the use of the ion exchange method for the
clarification of granulated sugar solutions. Izv. vys. ucheb.
zav.; pishch. tekhn. no.2:69-73 '63. (MIRA 16:5)

1. Krasnodarskiy institut pishchevoy promyshlennosti, kafedra
tekhnologii sakharistykh veshchestv.
(Sugar manufacture) (Ion exchange)

ZELIKMAN, I.F.; LEYBOVICH, D.M.

Affination of unrefined cane sugar at low temperatures. Izv.vys.-
ucheb.zav.; pishch. tekhn. no.3:50-53 '63. (MIRA 16:8)

1. Krasnodarskiy institut pishchevoy promyshlennosti, kafedra
tekhnologii sakharistykh veshchestv.
(Sugar manufacture)

ZELIKMAN, I.F.; ABDULLAYEV, T.A.

Some data on the effect of sulfitation on the crystallization
rate of sugar. Izv. vys. ucheb. zav.; pishch. tekhn. no. 2:83-
85 '61. (MIRA 14:5)

1. Sredneaziatskiy politekhnicheskiy institut. Kafedra tekhnologii
prodovol'stvennykh produktov.
(Sugar manufacture)

ZELIKMAN, I.F.

Quality of sugar reserved for sugar refineries. Sakh.prom. 34
no. 5:13-14 My '60. (MIRA 14:5)

1. Sredneaziatskiy politekhnicheskiy institut.
(Sugar manufacture)

ZELIKMAN, I.F.; ABDURASHIDOV, T.R.

Characteristics of honsugars of the sugar-cane manufacture.
Sakh.prom. 34 no.9:19-22 S '60. (MIRA 13:9)

1. Sredneaziatskiy politekhnicheskiy institut.
(Sugar-By-products)

ZELIKMAN, I.F.

Methods for calculating the yield of a raw refining pulp. Sakh.
prom. 34 no.6:25-27 Je '60. (MIRA 13:7)

1. Sredneaziatskiy politekhnicheskiy institut.
(Sugar manufacture)

ZELIKMAN, I.V.

Reaction of the sirup in the raffinade section of a confectionery.
Sakh.prom. 34 no.1:18-19 Ja '60. (MIRA 13:5)

1. Sredneasiatskiy politekhnicheskiy institut.
(Sirups)

UMAROV, D.U.; ZELIKMAN, I.F.

Refining of granulated products of the manufacture of sugar.
Izv.vys.ucheb.zav.; pishch.tekh. no.2:121-127 '59.
(MIRA 12:8)

1. Sredneaziatskiy politekhnicheskiy institut.
(Sugar manufacture)

ZELIKMAN, I.F.

Production of refined sugar in Leningrad. Sakh. prom. 33 no.5:2-3
(MIRA 12:7)
My '59.

1. Sredneaziatskiy politekhnicheskiy institut.
(Leningrad--Sugar industry)
(Leningrad--Confectionery)

ZELIKMAN, I.P.

Method of producing more compact reffinade. Sakh.prom. 33
no.3:6-8 Mr '59. (MIRA 12:4)

1. Sredneaziatskiy politekhnicheskiy institut.
(Sugar manufacture)

ZELIKMAN, I.F.

Some problems of sugar and raffinade production. Sakh. prom. 32
no.8:7-9 Ag '58. (MIRA 11:9)

1. Sredneaziatskiy politekhnicheskiy institut.
(Sugar manufacture)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001964410003-3

ZELIKMAN, I.F.

More on the article by M. and A. IArmolinskii. Sakh. prom. 32
no.4:72-73 Ap '58.
(Sugar industry) (MIRA 11:6)

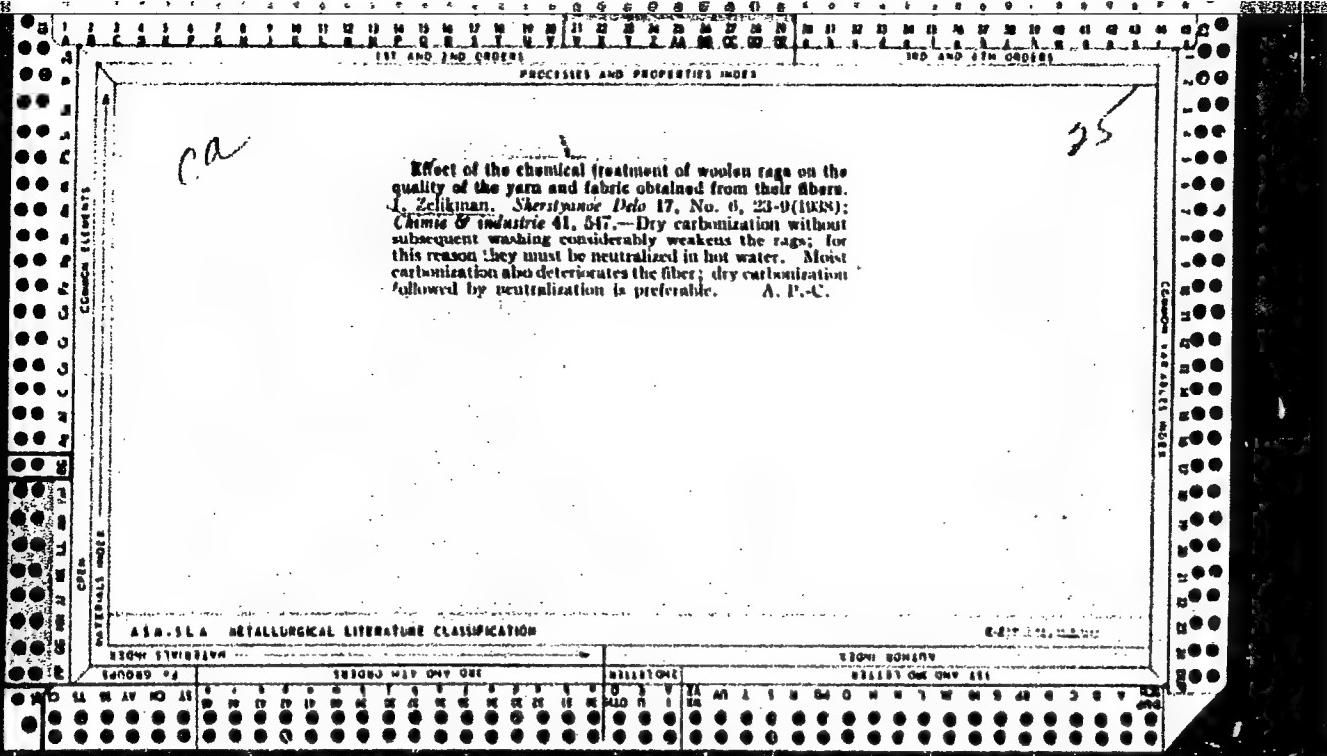
APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001964410003-3"

ZELIKMAN, I.F.; KOT, Yu.D.

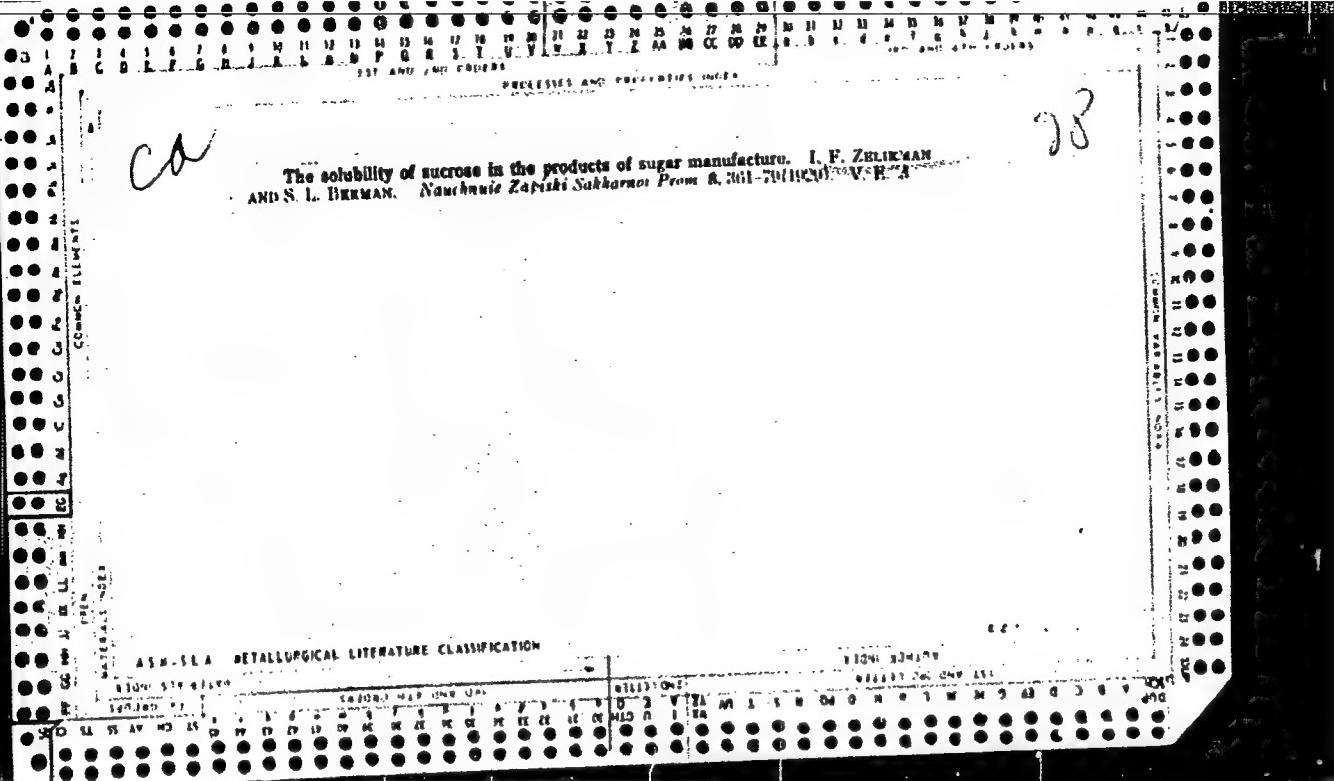
Boiling masscuite from high-concentration sirup. Sakh. prom. 32
no. 3:12-17 Mr '58. (MIRA 11:4)

1. Sredneaziatskiy politekhnicheskiy institut (for Zelikman).
2. Tsentral'nyy nauchno-issledovatel'skiy institut zakharnoy
promyshlennosti (for Kot).
(Sugar manufacture)



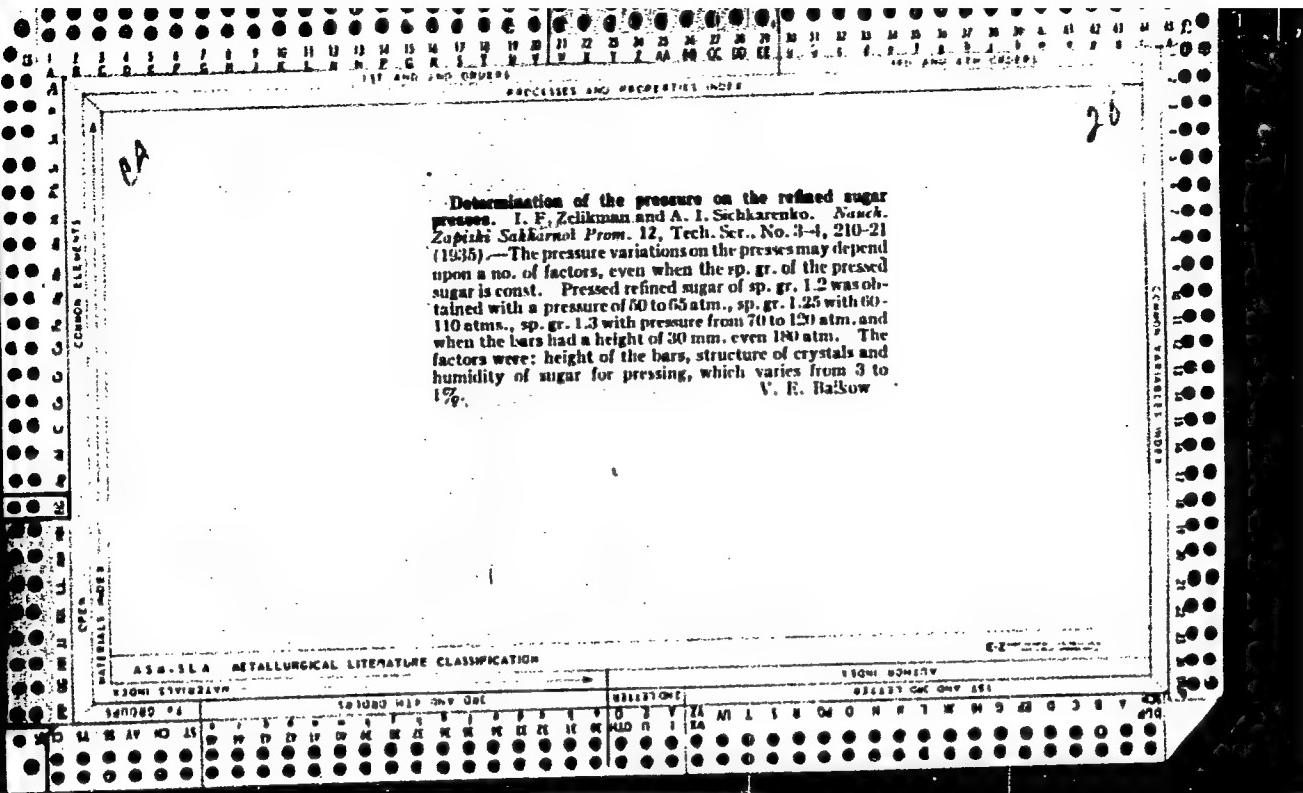
ZELIKMAN, L.D., insheber; KURDIN, A.S., inzhener.

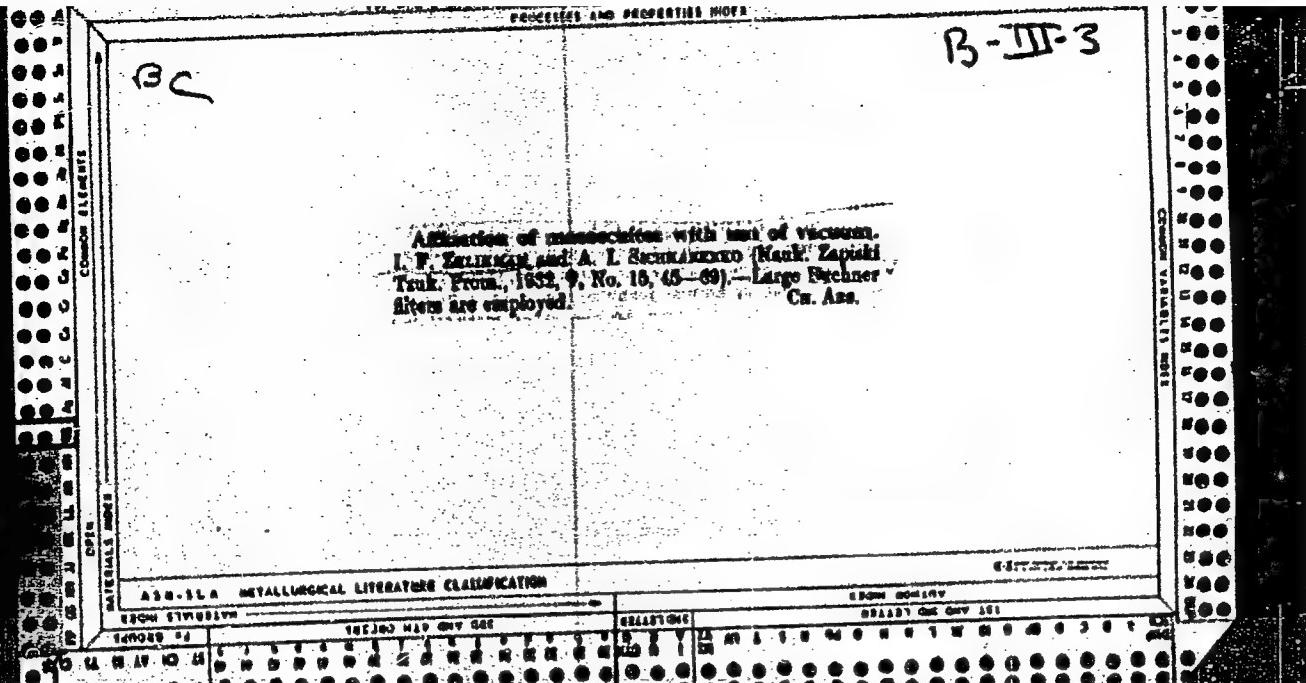
Graphite-talcum suspension as a means of controlling scale. Lit.
proizv. no.11:28 N '56. (MIRA 10:1)
(Foundry machinery and supplies)



Determination of the pressure on the refined sugar presses. I. F. Zelikman and A. I. Schkarenko. *Naučn. Zapiski Sakkornoj Prom.* 12, Tech. Ser., No. 3-4, 210-21 (1935).—The pressure variations on the presses may depend upon a no. of factors, even when the sp. gr. of the pressed sugar is const. Pressed refined sugar of sp. gr. 1.2 was obtained with a pressure of 60 to 65 atm., sp. gr. 1.25 with 60-110 atm., sp. gr. 1.3 with pressure from 70 to 120 atm. and when the bars had a height of 30 mm. even 180 atm. The factors were: height of the bars, structure of crystals and humidity of sugar for pressing, which varies from 3 to 17%. V. R. Balkow

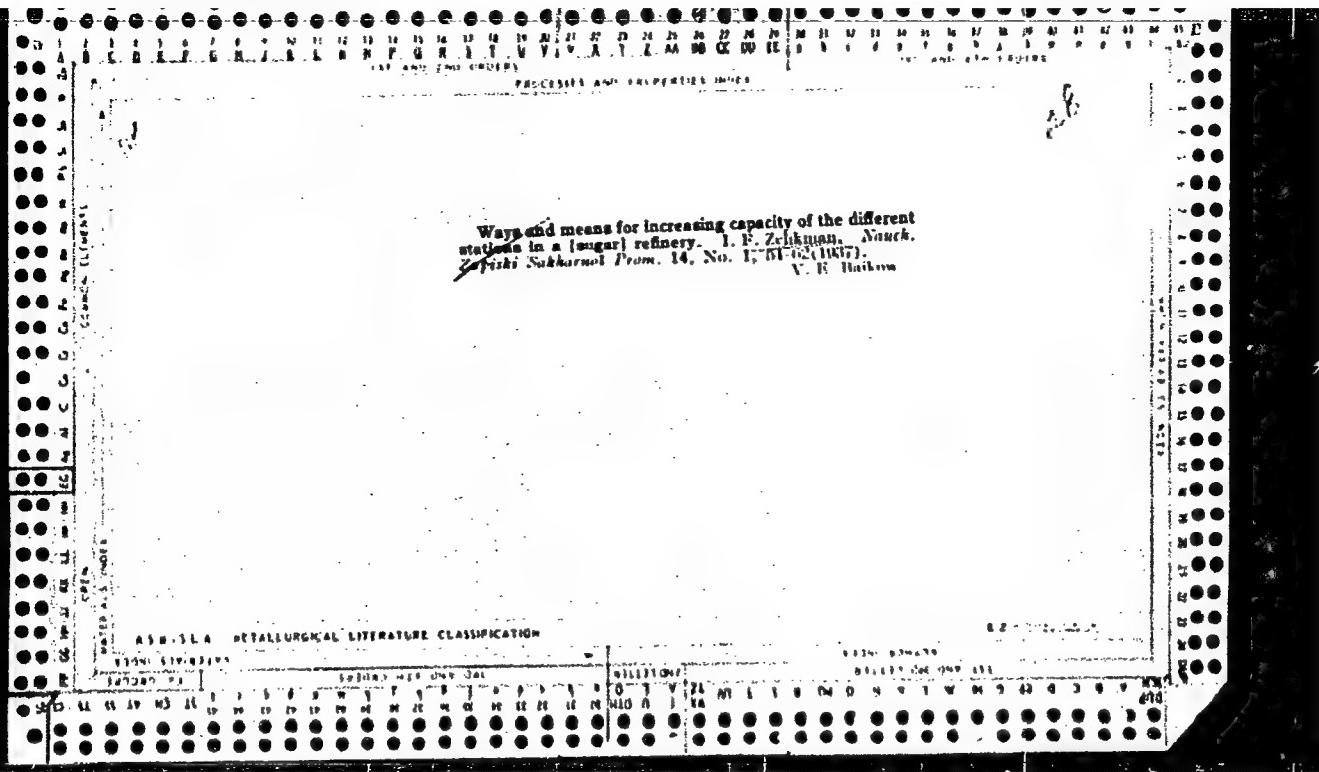
V. R. Hallow

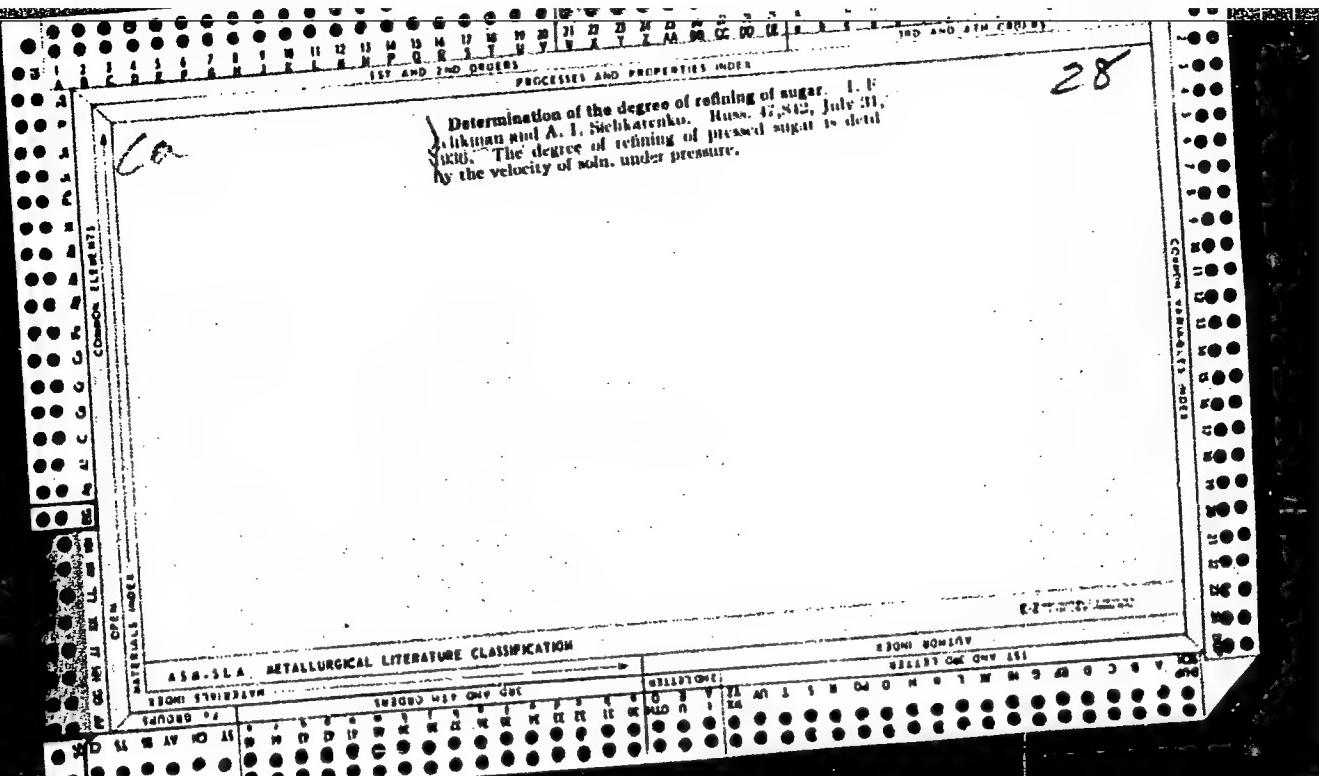


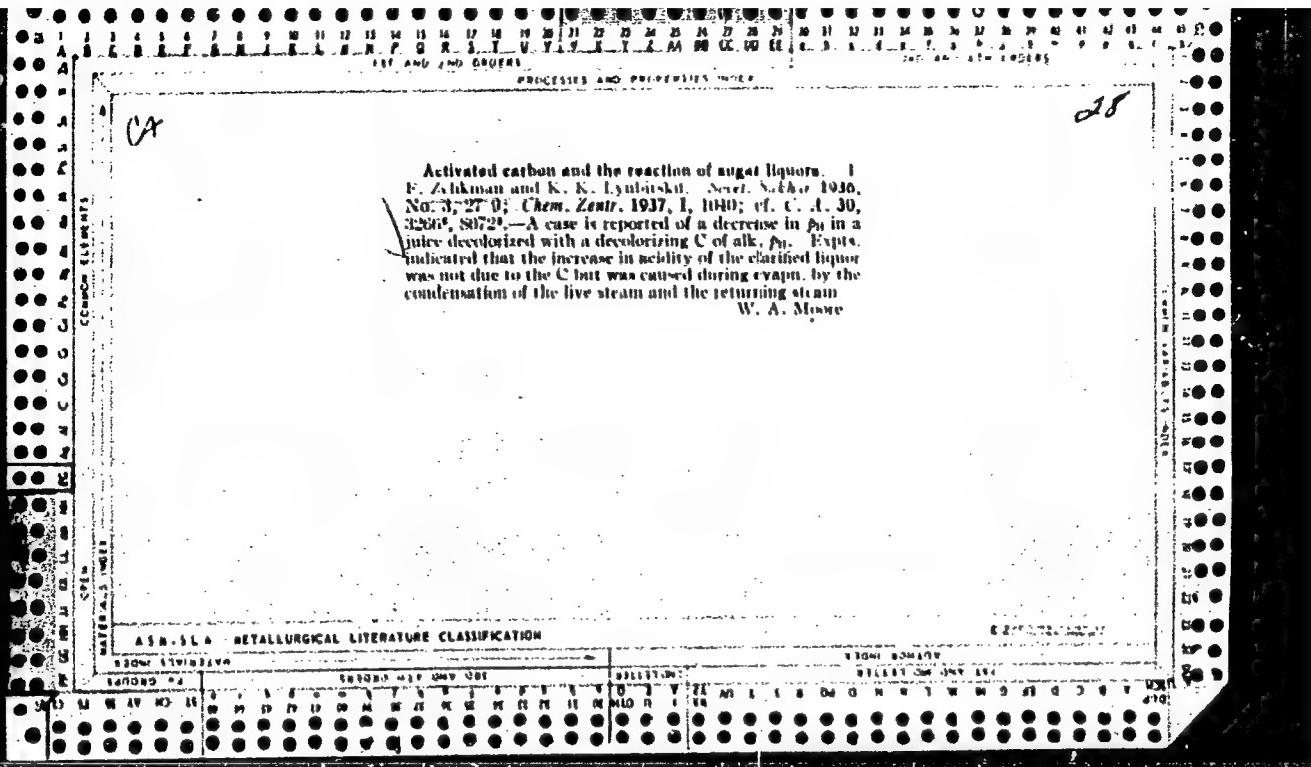


B-III-5

Direct production of reducing without crystallization. I. P. ZALINER AND L. O. SAXAIDMAN (Nauk. Zapiski Tekn. Inst., 1933, 9, No. 15, 1-46).—Conditions for the production of kulf and "bat" sugar by direct conversion of beet "raw sugar" without crystallization are specified. Cf. Ann.







ZELIKMAN, I. G.

"Production of Mica Articles" (Proizvodstvo Slyudanykh Izdeliy), Moscow, 1948

Translation of pp 5-12, 32-52, and 59-125 - No. 376, 6 Apr 55

ZELIKMAN, IZRAIL' KHATSKELEVICH

GAMBURG, Yakov Yul'yevich; ZELIKMAN, Izrail' Khatskelevich; NIKITIN, I.M.,
retsenzent; GUSEVA, T.S., redaktor; MEDVEDEVA, L.A., tekhnicheskiy
redaktor

[Installation, assembly, repair and adjusting of carding machinery
in the clothing industry] Ustroistvo montazh, remont i naladka
kardochesal'nykh apparatov sukonnogo proizvodstva. Izd.2-oe, ispr.
i dop. Moskva, Gos.nauchno-tekhn.izd-vo M-va tekstil'noi promyshl.
SSSR, 1956. 169 p.
(Carding machines)

(MLRA 10:9)

GAMBURG, Yakov Yul'yevich; ZELIKMAN, Izra'il' Khatskelevich; NIKITIN, I.M.,
retsenzent; GUSEVA, Ye.M., redaktor; MUDRODEVA, L.A., tekhnicheskiy
redaktor

[Design, assembly, repair, and adjustment of carding machines in the
production of cloth] Ustroistvo, montazh, remont i naladka kardo-
chesal'nykh apparatov sukonnogo proizvodstva. Izd. 2-oe, ispr. i
dop. Moskva, Gos. nauchno-tehn. izd-vo Ministerstva tekstil'noi
promyshl. SSSR, 1956. 169 p.
(Carding machines) (MLRA 9:10)

ZELIKMAN, L.R.

Differential diagnosis of ovarian apoplexy and acute appendicitis
Trudy Vor. med. inst. 52:157-158 '63.

(MTRA 18:3)

ZELIKMAN, M.A.

Mixed trichomonal-gonorrhreal urethritis in males. Vest. derm.
1 ven. 37 no. 8:50-52 Ag'63
(MIRA 17:4)

1. Kafedra kozhno-venericheskikh bolezney (zav. - dotsent
N.I. Metlitskiy) Krymskogo meditsinskogo instituta i Kryr kogo
oblastnogo kozhno-venerologicheskogo dispansera (glavnnyy vrach
M.G. Kochetov).

VYLEGZHANIN, D.N.; ZELIKMAN, M.Kh.

Threshold of the generation of a ruby laser taking into account
pumping energy dissipation in the crystal. Radiotekh. i elektron.
10 no.6:1147-1150 Je '65. (MIRA 18:6)

ZELIKMAN,M.KH.

53-1b-16/18

AUTHOR

GRINGAUZ, K.I., ZELIKMAN, M.KH.

TITLE

On the Measurement of the Concentration of the Positive
Ions Along the Orbit of an Artificial Earth Satellite.
(Izmereniye kontsentratsii polozhitel'nykh ionov vdol'
orbity ikusstvennogo sputnika zemli.- Russian)

PERIODICAL

Uspekhi Fiz. Nauk 1957, Vol 63, Nr 1b, pp 239-252 (USSR)

ABSTRACT

Artificial earth satellites are much better suited for
the study of the structure of the ionosphere than
rockets, for they make possible a long duration of ob-
servation and the accumulation of statistically valuable
material. The methods for the investigation of the
ionosphere by artificial satellites can be subdivided
into two main groups:

- 1) the study of the expansion of radio waves between
satellite and earth, i.e. the study of the radic
signals emitted by the satellite (or the earth) and
received by the earth (or the satellite). For the
second variety radiotelemetry is applied.
- 2) The measurement of the characteristics of the
ionosphere near the satellite by board equipment and
transmission of the measurement data to the earth by
a radiotelemetric system (or by salvage of the
recording equipment placed aboard the satellite).

CARD 1/5

53-lb-16/18

On the Measurement of the Concentration of the Positive
Ions Along the Orbit of an Artificial Earth Satellite.

The disadvantage of the first group of methods is the influence of the entire atmosphere lying between the satellite and the earth on the signals to be received. In any case the second method is by far the more expedient. The motion of the satellite, however, disturbs the state of its surroundings and generally also changes the quantities to be measured. This is especially true for the study of the concentration of the charged particles in the ionosphere. But if the physical parameter and the method of measurement are suitably chosen, the direct study of the properties of the ionosphere by artificial satellites may furnish valuable results. According to the authors the concentration of positive ions is the most suitable parameter for such measurements. If the negative ions should practically be absent in the altitudes eligible for the flight of the satellite, as it is almost unanimously assumed in publications dealing with this field, the determination of the concentration of the positive ions is equivalent to the determination of the concentration of free electrons.

CARD 2/5

53-lb-16/18

On the Measurement of the Concentration of the Positive
Ions Along the Orbit of an Artificial Earth Satellite.

This concentration is the most important characteristic
of the free atmosphere.
Some characteristics of the ionosphere in the altitudes
to be investigated. The authors here give some data
based on the conceptions of publications of recent years.
These data partly also take the experience made with
rocket tests in the upper atmosphere into account.
A diagram illustrates the course of temperature with
increasing height. The velocity of motion of the artificial
earth satellite ($v_{sp} = 8.10^5$ cm/sec) is by one order
of magnitude lower than the thermal speed of the electrons
but by one magnitude higher than the velocity of the
ions. The free length of path in 200 km altitude according
to rocket tests is $\lambda \sim 3.10^4$ cm. From an aerodynamic
point of view the satellite is supposed to move in the
region of free molecular current.

CARD 3/5

53-1b-16/18

On the Measurement of the Concentration of the Positive Ions Along the Orbit of an Artificial Earth Satellite.

On the distribution of charged particles around the satellite: Near the satellite the temperature, as well as the concentration of electrons and ions will not change essentially. There will also not be an impoverishment of the plasma on charged particles near the surface of the satellite caused by diffusion. Due to the various speeds of the electrons and ions the satellite must acquire a negative charge. The satellite and the vacuous space behind it is surrounded by a layer of positive charges.

The potential of the satellite: At the conditions prevailing in the F-layer, at $T = 1000^{\circ}$ K and absence of photoemission, the potential in all points of the surface of the satellite will be negative and not higher than 1 V. The corresponding thickness of the layer with positive space charge are also given.

The principle of measurements: The concentration of charged particles in the ionosphere is best measured by a method which is based on the uninterrupted measurement of the current of the charges of one sign. For this an apparatus is used with a screened collecting electric

CARD 4/5

53-1b-16/18
On the Measurement of the Concentration of the Positive
Ions Along the Orbit of an Artificial Earth Satellite.

field. Two netlike globular ion-traps are fixed on the satellite on diametrically opposed places in such a manner that at least one of them lies in the vacuous space behind the satellite. The carrying out of the tests and the effects distorting the measurements are also discussed.

(5 illustrations)

ASSOCIATION: not given.
PRESENTED BY: -
AVAILABLE: Library of Congress.
SUBMITTED: -

CARD 5/5

ZELIKMAN, P.Z., inzhener.

[Stakhanovite refractory brick layer G.M.Khrustalev] Stakhanovets-ogusupor-shchik G.M.Khrustalev. Moskva [Gos.isd-vo lit-ry po stroitel'stvu i arkhitekture] 1953. 6 p. (MLRA 6:10)

1. Russia (1923- U.S.S.R.) Ministerstvo stroitel'stva predpriyatiy tyazhe-
loy industrii. Tekhnicheskoye upravleniye i upravleniye rabochikh kadrov,
truda i zarabotnoy platy. (Bricklaying) (Khrustalev, G.M., 1920-)

ZELIKMAN, P.Z., inzh.

I.G.Tronin, instructor and innovator. Mekh.stroi. 14 no.8:14-15
Ag '57. (MIRA 10:11)
(Plastering)

ZELIKMAN, S. G.

FDD PA 169T20

USSR/Chemistry - Synthetic fibers, Sep 50
Analysis

"Potentiometric Determination of Sulfates in
the Precipitating Bath of the Viscose Silk
Manufacturing Process," S. G. Zelikman, S. P.
Makar'Yeva, A. B. Pakshiver, All-Union Sci Res
Inst of Synthetic Fiber

"Zavod Lab" Vol XVI, No 9, pp 4053-1057

Develops method for potentiometric titration
of precipitating baths with Ba chloride in
presence of H peroxide. Demonstrates pos-
sibility of potentiometric titration of

169T20

USSR/Chemistry - Synthetic fibers,
Analysis (Contd) Sep 50

precipitating baths with Pb nitrate with ferroferri-
cyanide electrode as indicator. Recommends 2d
method as more efficient.

169T20

ZELIKMAN, S. G., Candidate Chem Sci (diss) -- "Investigation of solutions of co-polymers and mixtures of carbon-chain polymers of analogous composition". Moscow, 1959. 12 pp (Order of Labor Red Banner Sci Res Phys-Chem Inst im L. Ya. Karpov), 150 copies (KL, No 24, 1959, 128)

ZELIKMAN, S.G.; MIKHAYLOV, N.V.

Study of the structure and properties of carbochain polymers in dilute solutions. Part 4: Integral and differential heats of solution and density of polymers. Vysokom. soed. 1 no.7:1077-1085 J1 '59. (MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Heat of solution) (Polymers)

Lekhman, S.G.
MIKHAYLOV, N.V.; ZELIKMAN, S.G.

Structure and properties of carbocyclic polymers in dilute
solutions. Part 3: Mixtures of polyvinyl chloride and
Polyacrylonitrile [with summary in English]. Koll,zhur. 19
no.4:465-471 Jl-Ag '57. (MIRA 10:10)

1. Vesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo
volikna, g. Mytishchi.
(^Whylene) (Acrylonitrile)

ZELIKMAN, S.G.; MIKHAYLOV, N.V.

Investigation of the structure and properties of carbon-chain polymers in dilute solutions. Part 2. Solutions of vinylchloride and acrylonitrile copolymers. Koll. zhur. 19 no.1:35-40 Ja-F '57.

(MLRA 10:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna, g. Mytishchi.
(Acrylonitrile) (Ethylene)

8/117/63/000/002/005/006
A004/A101

AUTHOR: Zelikman, T. I.

TITLE: Advanced methods of electrolytic coating

PERIODICAL: Mashinostroitel', no. 2, 1963, 43 - 44

TEXT: The author presents a survey on advanced technological processes, equipment and devices used in the electroplating shops of machine-building plants, which were displayed at the exhibition "Advanced Methods of Hardening Machine Parts" of the Moscow VDNKh. He mentions the following processes: chromium plating in a "self-regulating" electrolyte, which makes it possible to cut down the electric power consumption by 30% and accelerate the deposition of coatings by a factor of 1.5; chromium plating in a tetrachromate electrolyte or cold chromium plating at room temperature; chromium plating by using reverse current chemical nickel plating in acid and correcting alkaline solutions; a new process of measuring out electric current for the accurate dimensional chromium plating developed by V. O. Shul'gin; the application of the method of hard electrolytic iron plating. The Leningrad Sovnarkhoz showed at the exhibition the program-controlled unit-head

Card 1/2

Advanced methods of electrolytic coating

8/117/63/000/002/005/006
A004/A101

АГ-16- ПУ (AG-16-PU) automatic for carrying out various electroplating processes. Other equipment and devices were exhibited by the Moscow "Kalibr" Plant and the Institute of Electrical Engineering of the Academy of Sciences UkrSSR, the latter showing the БРТ-200 (BRT-200) and БРП-300 (BRP-300) installations for noncontact reversal of direct current in electroplating baths. There are 2 figures.

Card 2/2

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ZELIKMAN, V
ZELIKMAN V

The structure of photographic materials. Sov.foto 17 no.8:46-49
Ag '57. (MLRA 10:9)
(Photography--Apparatus and supplies)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001964410003-3"

ZELIKMAN, V.G., inzh.; FILANOVSKIY, Z.G., inzh.

[Safety regulations for servicing the equipment of fuel transportation departments and fuel supply systems of electric power plants] Pravila tekhniki bezopasnosti pri obsluzhivaniil oborudovaniia toplivno-transportnykh tsekhov i toplivopodachi elektrostantsii. Moskva, Energiia, 1965. 64 p. (MIRA 18:8)

1. Russia (1923- U.S.S.R.) Tekhnicheskoye upravleniye po ekspluatatsii energosistem.

ZELIKMAN, V.G.

Preventing spontaneous ignition of coal instorage piles. Energetik
4 no.10;39 0 '56.
(Combustion, Spontaneous) (MLRA 9:11)

BOBROV, A.A., DVORETSkiY, A.I., ZELIKMAN, V.G., LOSHAK, B.O., red., SIROMYATNIKOV,,
I.A., SHUKHEr, S.M.; BORUNOV, N.I., tekhn. red.

[Handbook for studying operating regulations for electric power
stations and systems] Posobie dlia izuchenija pravil tekhnicheskoi
eksploatatsii elektricheskikh stantsii i setei v zemni vypuskakh.
Moskva, Gos. energ. izd-vo. Pt. 1. [Transportation and fuel
management in electric power plants] Toplivno-transportnoe khoziaistvo
elektrostantsii. 1958. 286 p.
(Electric power plants) (MIRA 11:10)

ZELIKMAN, V.G., inzhener.

Fuel storage in electric power plants. Energetik 4 no.3:26-28 Mr.'56.
(Coal--Storage) (Peat--Storage)

SELMIRAN, V. G., Eng.; CHUKLOV, N. P.

Bulldozers

Using bulldozers in the electric plant's coal storage area. Elek. sta.,
23, No. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

ZELIKMAN, V. G., Engr

PA 26/49T26

USSR/Engineering
Power Plants
Fuels - Storage

Aug 48

"Mechanizing Coal Storage in Power Stations,"
V. G. Zelikman, Engr, 4 pp

"Elek Stants" Vol XIX, No 8

Attempts to discuss all problems related to
selection and construction of fuel warehouses
which can be adapted for mechanization, and
which would be designed on the basis of opera-
tional and economical principles.

FDB

26/49T26

ZELIKMAN, V.G., inzh.

Review of G.A. Chilaev's book "Fuel economy and fuel supply
systems of large foreign electric power plants." Energetik
10 no.3:35-36 Mr '62. (MIRA 15:2)
(Electric power plants)
(Fuel)
(Chilaev, G.A.)

Zelikman, V. I.
USSR/Optics - Scientific Photography, K-11

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35976

Author: Zelikman, V. L., Dmitriyeva, V. A.

Institution: None

Title: Investigation of Fog in Unexposed Developed Photographic Layer

Original

Periodical: Zh. nauch. i prikl. fotogr. i kinematogr., 1956, 1, No 3, 192-199

Abstract: None

Card 1/1

ZELIKMAN, V.K., kand.tekhn.nauk; LEVI, S.M., kand.tekhn.nauk;
MOSHKOVSKIY, Yu.Sh., kand.khim.nauk

Successful preparation of silver halide photographic emulsion
layers. Khim.nauk i prom. 3 no:5:567-576 '58. (MIRA 11:11)
(Photographic emulsions) (Silver halide)

The Soviet "Supergreen." X. L. Zelikman and O. V. Popova. *Kino-Foto-Khim. Prom.* 1938, No. 11, 32-6; *Khim. Referat. Zhur.* 2, No. 5, 121(1939).—The sensitizing dye 12 N (2,2'-diethyl-3,3'-4'-dibenzoylcarbonyl-aniline p-toluenesulfonate) was introduced into a photographic emulsion for optical sensitization was 2-4 times that obtained with erythrosin. The spectral characteristics of the dye 12 N differ greatly also by the green. The region of extinction of light sensitivity in the green is the same as that of erythrosin; it extends to 610-20 m μ . The max. sensitization of the film by the dye 12 N was at about 550 m μ . The condition of this film after 6 months was identical with that of the film which contained erythrosin.

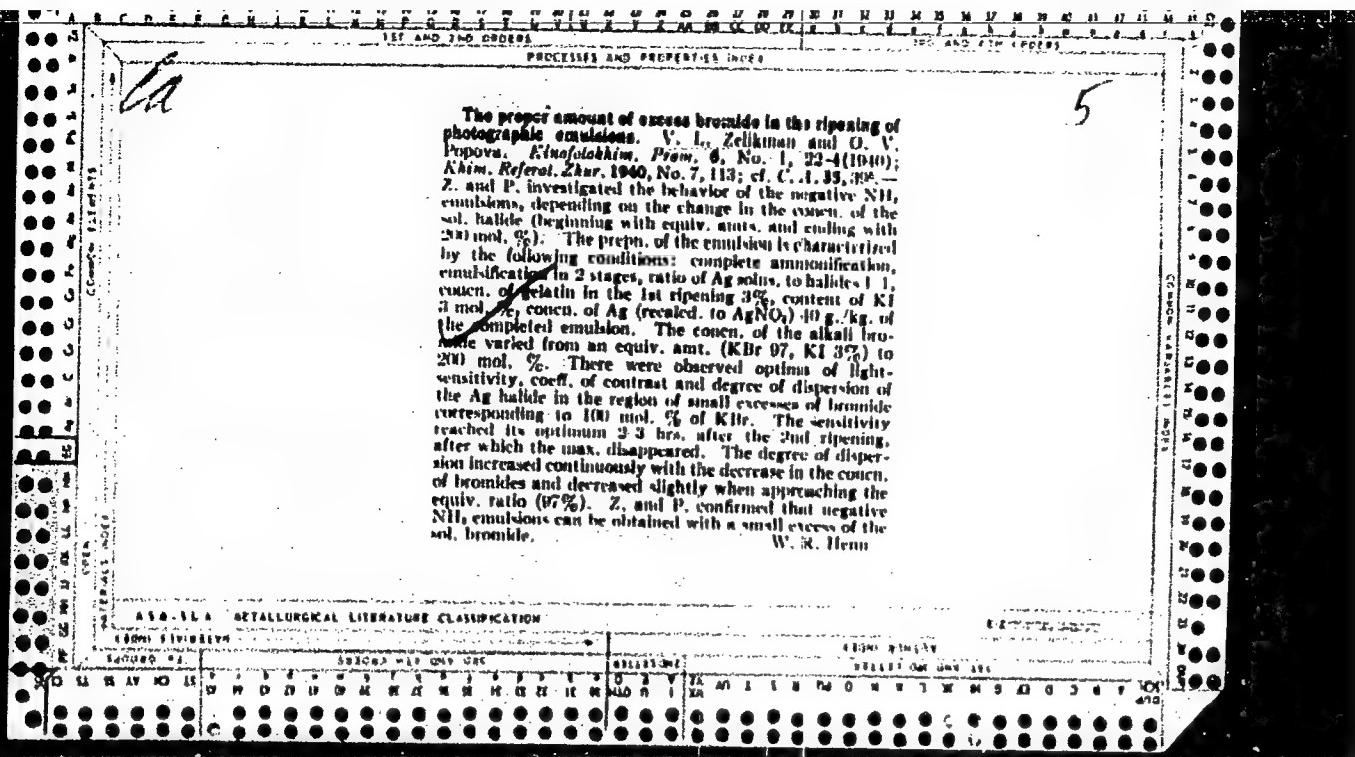
W. H. Morris

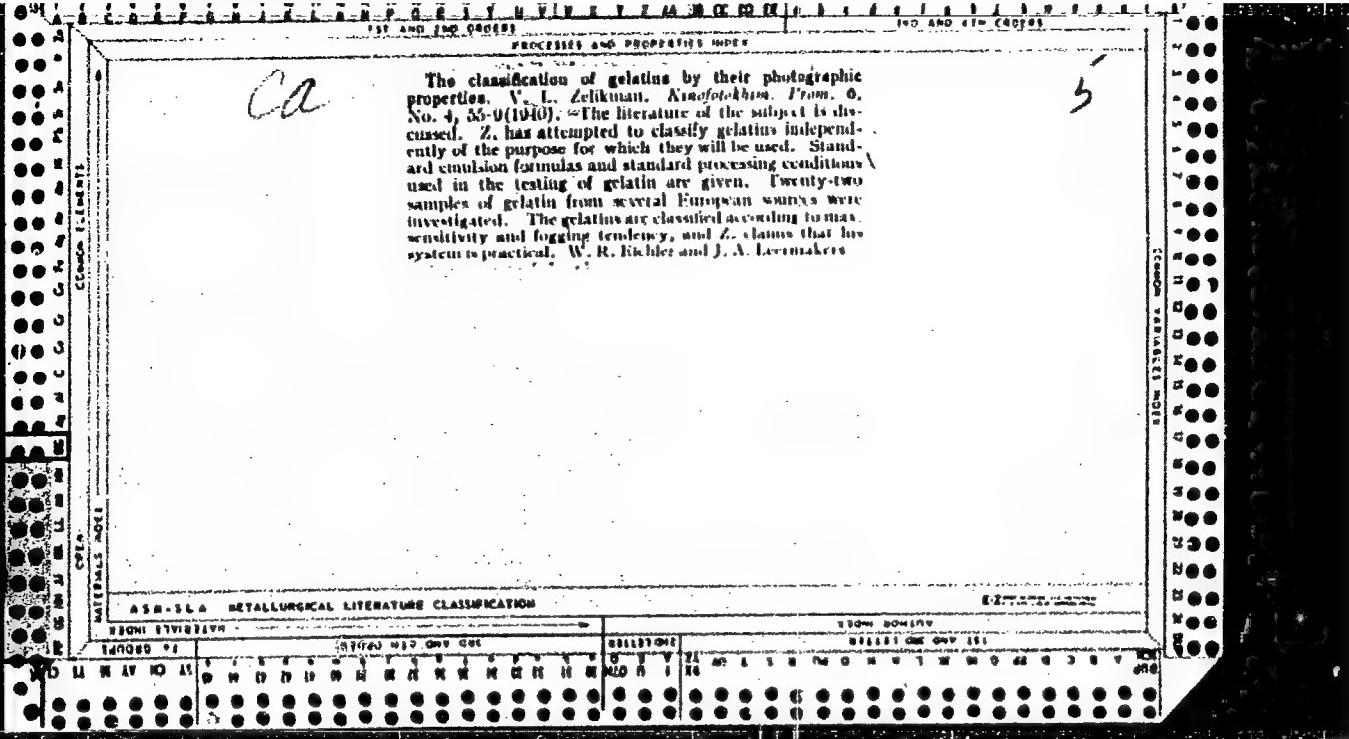
APPROVED FOR RELEASE: 07/19/2001

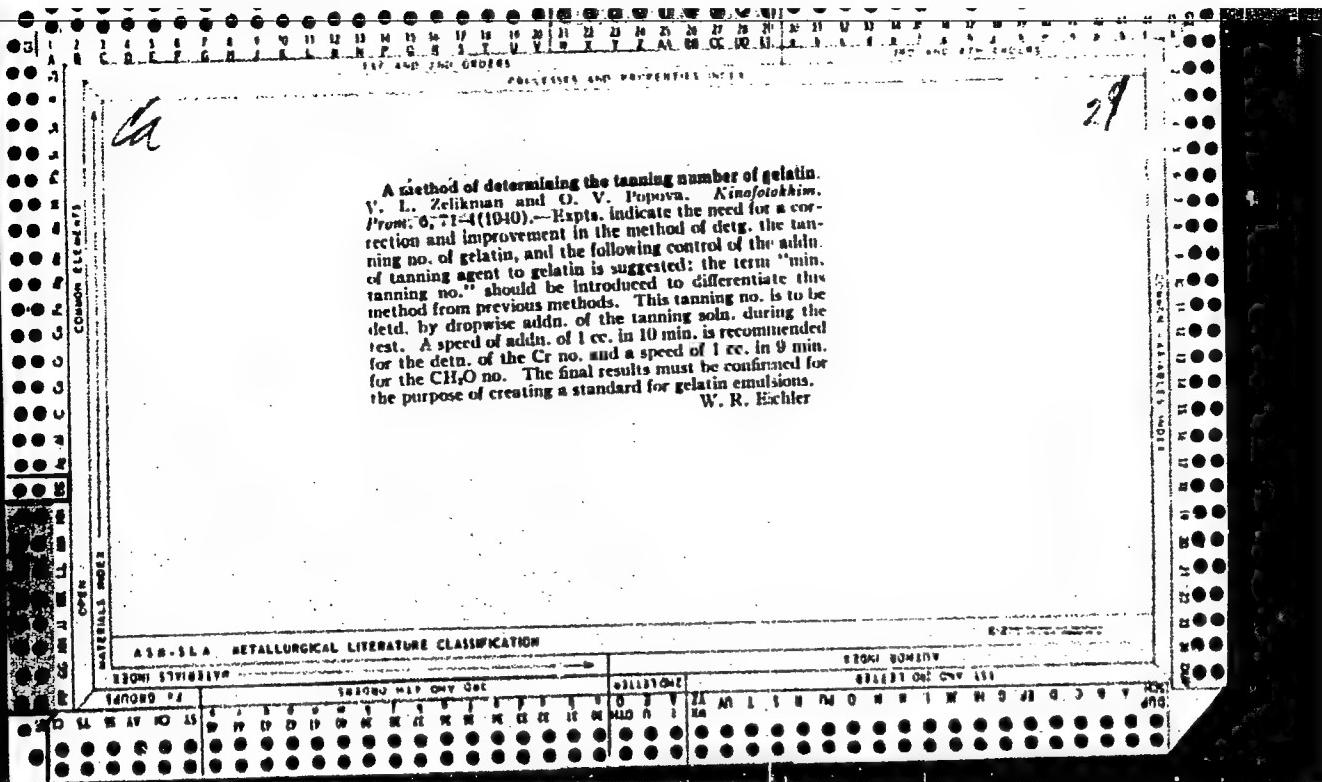
CIA-RDP86-00513R001964410003-3"

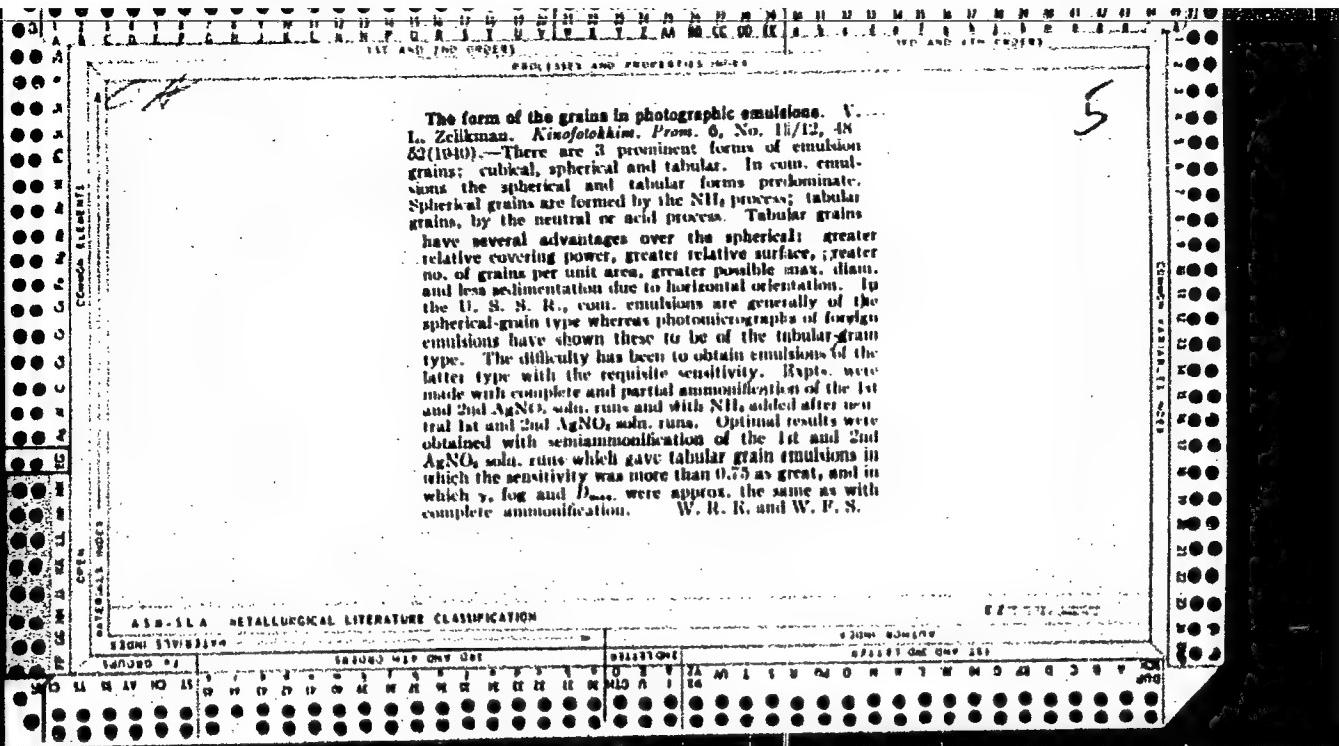
Choice of a gelatin combination in the production of photographic emulsions. V. I. Zelikman. *Kinofotokhim. Prom.*, 6, No. 7, 38-42(1940)—Z. confirmed the possibility of using a new and very simple classification of gelatins according to their photographic properties for the purpose of choosing suitable combinations of gelatin in the preparation of all types of emulsions. A practical system was found by which the correct combinations of gelatin was experimentally confirmed on many emulsions. The existence of a relation between the choice of a gelatin combination with the new classification and the photographic behavior of dry emulsions in aging was found. The sensitivity of dry emulsions prepared from gelatin combinations increases abnormally in aging, if gelatin of lower activity are used. It was also found that high speed emulsions can be obtained with very short aging time by choosing a suitable gelatin combination. — W. R. Eichler

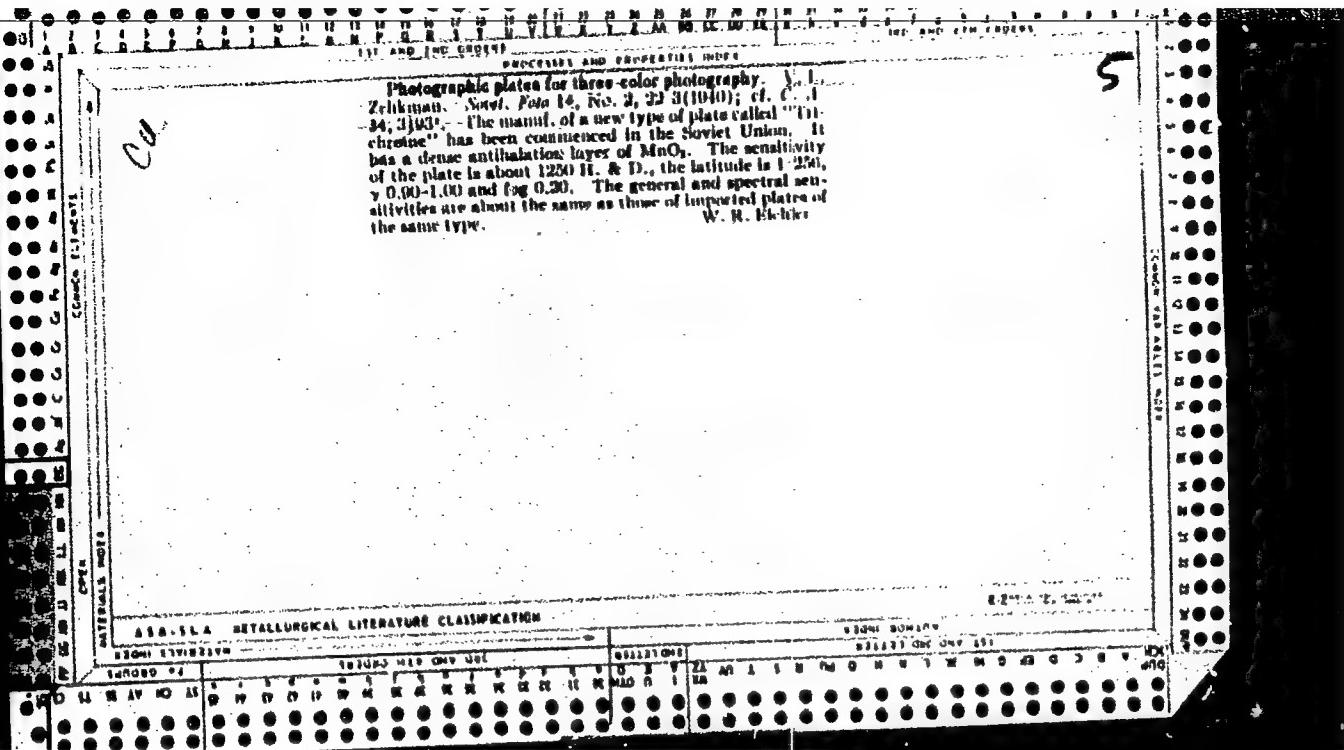
ABE-51A METALLURGICAL LITERATURE CLASSIFICATION











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CIA-RDP86-00513R001964410003-3

ZELIKMAN, V.L.

Silver-halide photosensitive layers. Patent U.S.S.R. 77,060, Dec. 31,
1949.
(CA 47 no.19:9834 '53)

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CIA-RDP86-00513R001964410003-3

ZELIKMAN, V.L.

Photosensitive materials. Patent U.S.S.R. 77,659. Dec. 31, 1949.
(CA 47 no.19:9834 '53)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001964410003-3"

ZELIKMAN, V.L.; DMITRIYEVA, V.A.

Study of the cloudiness of the unexposed developed photographic layer. Zhur.nauch. i prikl. fot. i kin. l no.3:192-199 My-Je '56.
(MLRA 9:9)

1.Vsesoyuznyy nauchno-issledovatel'skiy kino-fotoinstitut.
(Photographic emulsions)

ZELIKMAN, V. E.

USSR /Chemical Technology. Chemical Products
and Their Application

I-22

Photographic materials

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32375

Author : Kirillov N.I., Chikishev Yu. G., Zelikman V.L.

Title : Study of the Continuous Process of Sedimentation
of Photographic Emulsions

Orig Pub: Zh. nauch. i prikl. fotogr. i kinematogr., 1956,
1, No 4, 266-271

Abstract: A study was made of the continuous process of
sedimentation of silver halide of photographic
emulsions. The possibility has been ascertained
experimentally of a practical effectuation of
the continuous process of sedimentation of emul-
sions, with the securing, as a result thereof, of

Card 1/2

USSR /Chemical Technology. Chemical Products
and Their Application

I-2?

Photographic materials

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32375

definite groups of microcrystals of the emulsion, according to their dimensions, on the different shelves of the continuous sedimentation apparatus. The results of this investigation are of value in the study of the properties of grains of different size, which are obtained in a given type of emulsion. The possibility is noted of utilizing sedimentation apparatus of different design, and also the advisability of speeding up the precipitation of the solid phase of the suspension, for instance by centrifugation.

Card 2/2

ZELIKMAN V.L.; DMITRIYEVA, V.A.

The mechanism of photographic development with the participation
of hydrazine. Zhur.nauch.i prikl.fot.i kin.2 no.6:437-444 N-D '57.

(MIRA 10:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy kino-foto-institut.
(Hydrazine) (Photography--Developing and developers)

AUTHORS: Zelikman, V.L.; Klyuyenkova, Ye.I. SOV-77-3-5-4/21

TITLE: A Comparative Study of the Various Methods of Synthesizing Photographic Emulsions (Sravnitel'noye issledovaniye razlichnykh metodov sinteza fotograficheskikh emul'siy)

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1953, Vol 3, Nr 5, pp 335-344 (USSR)

ABSTRACT: Several methods may be used for preparing negative emulsions: the ammonium, neutral-ammonium and neutral, also the fractional ammonium method, and by introducing ammonium into bromides. The choice of method governs to some extent the shape and dimensions of the silver halide crystals. The authors carried out research into all these methods, discuss the processes involved, and give the results of their comparative studies into the effect of these various methods on the photometric equivalent - sensitivity (P, S_{max}) dependence, set out in graph form. None of the methods was found to give fully satisfactory results throughout the whole sensitivity range, and a method must therefore be chosen to fit each case. The results tend to show that a change in the method of the second emulsification would have as much effect on the microgranular structure of the developed image as a change in the first emulsification. There are 4 tables, 7 graphs, 1 set.

Card 1/2

SOV-77-3-5-4/21

A Comparative Study of the Various Methods of Synthesizing Photographic Emulsions

of photos and 16 references, 10 of which are Soviet, 4 English and 2 German.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut
(All-Union Research Institute for Photography and Cinematography)

SUBMITTED: September 17, 1956

1. Photographic emulsions--Synthesis

Card 2/2

AUTHOR: Zelikman, V.L. SOV/77-3-6-11/15

TITLE: Reviews and Brief Communications. Scientific Chronicle (Obzory i kratkiye soobshcheniya. Nauchnaya khronika) Works of Soviet Scientists in the Field of Photo Emulsion Technology (Raboty Sovetskikh uchenykh v oblasti fotoemul'sionnoy tekhnologii)

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1958, Vol 3, Nr 6, pp 452-468 (USSR)

ABSTRACT: Work in the field of photo emulsion technology was started in the USSR when the Pereslavskaya kinoplenochnaya fabrika (Pereslavl' Motion Picture Film Factory) and the Shostkinskaya kinoplenochnaya fabrika (Shostka Motion Picture Film Factory) were put into operation in 1931. Similar to foreign countries, the USSR has produced little technical literature in the field of photo emulsions. The recently established NIKFI and a few researcher groups are engaged in closing this gap, and the USSR has become the second-biggest producer of light-sensitive films in the world. Seven articles deal with diverse aspects of recent photo emulsion research not included in Chibisov's comprehensive survey.

Card 1/5 Development of apparatus and materials for a modern production

SOV/77-3-6-11/15

Reviews and Brief Communications. Scientific Chronicle. Works of Soviet Scientists in the Field of Photo Emulsion Technology.

of photo emulsions was started with the establishment of the chemical faculty of the Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana (Moscow Technological College imeni Bauman) in 1929 with the phototechnological engineers A.O. Kondakhchan, A.P. Ostroumov, N.F. Chaplygin and G.M. Epshteyn, under the direction of Professor Ya.M. Katushev. Early equipment and processes are described by I.M. Fedorov. In the development of devices and apparatus used in photoemulsion technology and working out of various types of materials for motion pictures and photography the names of the following Soviet researchers became prominent: M.I. Shor, A.V. Borin, V.A. Bekunov, V.S. Kol'tsov, M.I. Ivanova, A.A. Titov, B.V. Deryagin, V.I. Uspenskiy, Konovalova, S.M. Levi, O.K. Smirnov, S.A. Shreyner, P.I. Zubov, S.P. Shuvalov, A.V. Lykov, N.N. Kuz'minskiy, Ye.K. Podgorodetskiy, Ya.A. Shnayzman, L.V. Rozental', M.G. Mazyrin, I.N. Goufman, A.G. Amelin, B.A. Posnov, N.A. Pershanov, P.F. Lebedev, F.M. Polonskaya, L.A. Le-pilkina, F.A. Rozental', N.A. Vinogradova, V.S. Chel'tsov, G.I. Arbuzov, A.N. Jordanskiy, I.M. Kilinskiy and Yu.B. Vilenskiy. It is also mentioned that NIKFI and the Shost-

Card 2/5

SOV/77-3-6-11/15

Reviews and Brief Communications. Scientific Chronicle. Works of Soviet Scientists in the Field of Photo. Emulsion Technology.

kinskaya fabrika (Shostka Factory) developed the LN-3 film which is about 3 times more light-sensitive (50-60 by GOST or 19-20° DIN) than its predecessor LN-2. On this base NIKFI and the Shostka Factory developed the DS-3 color negative film. NIKFI and Kazanskaya fabrika (The Kazan' Factory) developed an infra-film. In the field of classification of the photographic gelatin and selection of its compounds for the synthesis of emulsions the following names of Soviet researchers are quoted: K.V. Chibisov and assistants; Ye.A. Kirillov, N.V. Makarov, V.A. Bekunov, A.V. Borin, V.L. Zelikman, K.S. Lyalikov, V.V. Trusov, K.M. Saldadze, and A.A. Titov. In the field of conditions for the synthesis of photographic emulsions, the names of the following Soviet researchers are mentioned: K.V. Chibisov, K.S. Lyalikov, N.A. Perfilov, N.I. Gerling, Ye.I. Pokrov'yeva, P.F. Ipatov, N.R. Novikova, V.N. Zharkov, Ye.P. Dobroserdova, A.A. Titov, A.A. Mikhaylova, and I.M. Ratner. The field of the formation of the photographic properties of the materials of motion pictures and photography is covered by the names of the following Soviet researchers: S.P. Shuvalov, A.V. Bromberg, M.I. Shor,

Card 3/5

SOV/77-3-6-11/15

Reviews and Brief Communications. Scientific Chronicle. Works of Soviet Scientists in the Field of Photo Emulsion Technology.

K.M. Ginzburg, A.V. Borin, Yu.N. Gorokhovskiy, P. Kh. Pruss, N.I. Kirillov, Deberdelyev, and Kirillova. The names of the following Soviet researchers are connected with the problem of aging of photographic layers: K.V. Chibisov and co-researchers, V.Ya. Mikhaylov, Yu.N. Gorokhovskiy, V.N. Fedotova, M.I. Shor, V.I. Sheberstov, V.L. Zelikman, A.V. Borin, S.M. Solov'yev, B.G. Varshaver, Ye.J. Birr (SZG), and G.P. Fayerman. The following Soviet researchers' names figure prominently in the field of the comparative evaluation of the different methods of synthesis of photographic emulsions: V.L. Zelikman, Ye.I. Klyuyenkova, I.P. Protas, P.Kh. Pruss, Yu.A. Krakau, P.V. Meykliar, V.P. Linnik, B.V. Barbarin, Yu.N. Gorokhovskiy, T.M. Levenberg, A.A. Markelova and V.M. Kuleshova. The technological arrangements of the synthesis of photographic emulsions are marked by the works of the following Soviet researchers: A.O. Kondakhchan, N.V. Makarov, Borin, Osadchenko, I.R. Protas, A.A. Titov, Yu.Sh. Moshkovskiy, V.L. Zelikman, V.A. Dmitriyeva, V.A. Bekunov, V.S. Chel'tsov, Tager, A.V. Borin, S.A. Illyeva, Ye.B. Kondrat'yeva,

Card 4/5

SOV/77-3-6-11/15

Reviews and Brief Communications. Scientific Chronicle. Works of Soviet Scientists in the Field of Photo Emulsion Technology.

N.I. Kirillov, Yu.G. Chikishev, E.V. Barbarin, and Yu.N. Gorokhovskiy.

There are 3 diagrams, 3 graphs, and 223 references, 194 of which are Soviet, 23 English, 5 German and 1 Japanese.

Card 5/5

ROLE OF BOOK BUREAUS

Abbildungen und Bilder. Kataloge, po satskoy fotografii i kinematografii.

Optical methods for stereoscopy, see 71. *Periodicals* *Photographs* *characteristic* *Notes*.
Technique *Photostereoscopic* *Photostereoscopes* *Notes*.
Optical methods *sensitization* *1. General* *Notes*. *Disks* *Stereograms*
chromatic aberration *retroreflected light* *Notes*. *Notes* *of Photogrammetric*
stereoscopy. *Preparation of* *Gold-Dilute* *Photoplates* *Notes*. *Optical Sensitizing*
agents *and* *Experiments*. *Chemical-photographic treatment of* *Photograms*
Lenses *Notes*. 1960. 260 p. Plates 112 inserted. 1,000 copies printed.

CONTENTS. This collection contains articles from the editorial files of the *Journal* which, in particular respects, it has been difficult to classify. In this preparation and processing of bald alveo-light-sensitive layer, the nature of photometric sensitivity, the penetrability of photographic emulsions and optical theory and technology of the preparation of photographic emulsions and optical sensitization, and finally the chemical photographic processes of black-and-white and color photographic materials. Many of the articles contain the results of scientific investigations made by the author. The collection also includes several reviews of current problems in the theory or industrial-photographic processes. A bibliography of Soviet and non-Soviet references accompanies each article.

McNAUL, E. The Effect of Chemical Penetration on the Sensitivity of Photographic Emulsions at Low Illumination Intensities

**DEPARTMENT OF PHYSICAL CHEMISTRY,
UNIVERSITY OF TORONTO,
T. A. GREEN,
AND P. J. GIBBONS.
Role of
Heterogeneous Zone in the Chemical Sensitization of Photographic Emulsions
With Gold**

BERTRAND, L. A., and J. S. DETHMERS. Investigation of Effect of Sodium Chloride on the Physiological Properties of Bullions Sensitized with Gold.

Editorial, I.A., Changes in the Diagnoses of the Osteoporosis Aging Process

Enzymes in the Synthesis of Polyacetylene Derivatives

WILLIAM S. MC. Modern Concepts of Gelatin Structure

15. PHOTOGRAPHIC GELATIN

J. H. and F. A. Williams. Search for Ways of Improving the
Stereoscopic Mechanical Properties of Photographic Lenses for Stereoscopic
Research

Sellman, T. J., Methods of Testing Photographic Emulsions

Radiation- μ -Pd Elementary Composition of Nuclear Photographic Emulsion

ZELIKMAN, V.L.

Transactions of the Laboratory (Gidro) of Aeromethods, AS USSR Sov/3815
V.J. Materials of 7th AU Interdept Conf. Aerial Survey (Dec 56), Moscow, 1959 331pp.
Zelikman, V.L., and V.A. Dmitriyeva [Scientific-Research Institute
of Photography and Cinematography].

Hydrazine Photodevelopers and Their Mechanism 45

Kol'tsov, V.V. [Laboratory of Aerial-Surveying Methods].
Use of Spectrometer in the Aerial Measurement of
Reflecting Spectral Power of Small Ground Objects 58

Shifrin, K.S. [Main Geophysical Observatory imeni A.I. Voevodov].
Works of the Main Geophysical Observatory [imeni Voevodov] on
the Physical Bases of Aerial Photography 70

Rodionov, B.N. [Moskovskiy institut inzhenerov geodezii, aerofoto-
semki i kartografii - Moscow Institute of Geodetic, Photogrammetric,
and Cartographic Engineering].
Use of Helicopters in Aerial Photography 74

Belov, S.V. [Laboratory of Aerial-Surveying Methods].
Resolving Power of Aerial Photographs 78

Card 4/15

ZELIKMAN, V.L.; DMITRIYeva, V.A.

Hydrazine as a developer and the development mechanism.
Trudy Lab.aeromet. 7:45-57 '59. (MIRA 13:1)

1. Nauchno-issledovatel'skiy kinofotoinstitut (NIKFI).
(Hydrazine)
(Photography--Developing and developers)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001964410003-3

ZELIKMAN, V.L.; SHERMAN, F.S.; DMITRIYEVA, V.A.; KONDRAT'YEVA, Ye.B.

Use of the diffusometric method for determining the sharpness of the photographic image in the manufacturing technology of thin-layer motion-picture films. Usp.nauch.fot. 10:221-229 '64.

(MIRA 17:10)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001964410003-3"

ZELIKMAN, V.L.

Investigating the hardening of photographic emulsions. Part 1:
Hardening with chromium acetate. Trudy NIKFI no.51:39-50 '62.

Investigating the hardening of photographic emulsions. Part 2:
Hardening with chromo-potassium alums. Ibid.:51-57

Investigating the hardening of photographic emulsions. Part 3:
Hardening with formalin. Ibid.:58-63

Investigating the hardening of photographic emulsions. Part 4:
Hardening with phloroglucinol formaldehyde. Ibid.:64-79

(MIRA 16:12)

ZELIKMAN, V.L.

Relationship between the photometric equivalent and the average
size of undeveloped emulsion grains. Zhur. nauch. i prikl. fot. i
kin. 6 no.5:391-393 S-0 '61. (MIRA 14:9)
(Photographic emulsions)

S/081/62/000/005/069/112
B156/B108

AUTHORS: Zelikman, V. L., Dmitriyeva, V. A.

TITLE: The reversible aggregation of particularly fine-grained emulsions

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 5, 1962, 502, abstract 5L403 (Tr. Vses. n.-i. kinofotoin-ta, no. 35, 1960, 60-63)

TEXT: An effective method of preparing particularly fine-grain micate or nuclear type silver bromide emulsions with the colloidal dimensions of micro-crystals is as follows: separation of silver halide grains by sedimentation or centrifuge treatment at low gelatine concentrations (0.1% or less); this creates conditions under which the reversible aggregation of the silver halide grains can take place. When the residue has fully dispersed, the emulsions obtained have normal photographic properties, optical sensitivity, and stability during storage.
[Abstracter's note: Complete translation.]

Card 1/1

ZELIKMAN, V.L.

Effect of air moisture on the "post-hardening" of photographic and
gelatine layers. Zhur. nauch. i prikl. fot.i kin. 6 no.1:63 Jan. F
'61. (MIRA 14:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy kino-fotoinstitut(NIKFI).
(Photographic emulsions)

ZELIKMAN, V.L.

Mechanism of the action of hardeners on the photographic emulsions.
Zhur.nauch.i prikl.fot. i kin. 5 no.6:403-405 N-D '60.

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut.
(Photographic emulsions) (MIRA 14:1)

PHASE I BOOK EXPLOITATION

SOV/5357

Zelikman, Vitaliy L'vovich, and Sergey Maksimovich Levi

Osnovy sinteza i poliva fotograficheskikh emul'siy (Principles of Synthesizing and Applying Photographic Emulsions) Moscow, Iskusstvo, 1960. 355 p. 2,250 copies printed.

Chief Ed. : N. I. Kirillov, Professor; Ed. : V. S. Bogatova; Tech.Jd. A. N. Chicherin.

PURPOSE: This book is intended for photographers and persons engaged in the manufacture of photographic film and film materials.

COVERAGE: The book reviews the scientific basis of the more important and decisive stages in the industrial production of light-sensitive materials, taking into account Soviet and non-Soviet achievements in the theory of synthesizing photographic emulsions and applying them to flexible substrates. Some problems are briefly discussed (gold sensitization, tanning processes)

Card 1/8

Principles of Synthesizing (Cont.)

SOV/5357

and others are only touched upon (problems of colloidal stability, the effect of emulsion properties on the resolving capacity of a photographic layer, etc.). The operation of equipment is described and illustrated diagrammatically. Main emphasis has been given to new data in photographic chemistry, to new industrial processes and methods of synthesizing photographic emulsions, and to the need of an engineering approach to the solution of various complex problems of producing light-sensitive materials. The introduction and Chs. II, III, IV and V were written by V. L. Zelikman; Chs. VI and VII, by S. M. Levi; and Ch. I was written jointly. The authors thank Professors K. V. Chibisov and B. V. Deryagin, Corresponding Members of the Academy of Sciences USSR, and Professor N. I. Kirillov, Doctor of Technical Sciences. References follow each chapter.

TABLE OF CONTENTS:

Foreword

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Card 2/8

ZELIKMAN, Vitaliy L'vovich; LEVI, Sergey Maksimovich; KIRILLOV, N.I.,
prof., doktor tekhn.nauk, red.; BOGATOVA, V.S., red.;
CHICHERIN, A.N., tekhn.red.

[Fundamentals of the synthesis and application of photographic
emulsions] Osnovy sinteza i poliva fotograficheskikh emul'sii.
Moskva, Gos.izd-vo "Iskusstvo," 1960. 355 p.

(Photographic emulsions)

(MIRA 14:3)

KIRILLOV, N.I., CHIKISHEV, Yu.G.; ZELIKMAN, V.L.

Continuous synthesis of photographic emulsions. Usp.nauch.fot.
7:109-114 '60. (MIRA 13:?)
(Photographic emulsions)

ZELIKMAN, V.L., KONDRAT'YEVA, Ye.B.

Gelatin concentration during ripening. Usp.nauch.fot. 7:115-119
'60.

(Gelatin) (Photographic emulsions)

(MIRA 13:7)

ZELIKMAN, V.L.

Methods of tanning photographic emulsions. Usp.nauch.fot. 7:
161-169 '60.
(Photographic emulsion) (Tanning materials)

(MIRA 13:7)

ZELIKMAN, V.L.

Additivity of gelatin hardening by organic and inorganic
hardener mixtures. Zhur. nauch. i prikl. fot. i kin. 9
no.3:205-206 My-Je '64. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut
(NIKFI). Submitted November 29, 1963.

ZELIKMAN, YU.

FOMINYKH, I., kandidat tekhnicheskikh nauk; ZELIKMAN, Yu.; KNYAZEV, V.,
tekhnolog; TYL'KIN, M.N., redaktor; PULIN, L.I., tekhnicheskiy
redaktor

[New methods of casting; casting practices of plants in Tula and
Tula Province] Novoe v liteinom proizvodstve; iz opyta liteinykh
tsakhov predpriatii Tuli i oblasti. [Tula] Tul'skoe knizhnoe
izd-vo, 1956. 78 p.
(MIRA 10:9)

1. Glavnyy metallurg laptevskogo zavoda "Uglemash" (for Zelikman);
2. Liteynyy tsakh zavoda Ministerstva putey soobshcheniya (for
Knayazev)

(Tula Province--Founding)

ZELIKMAN, Yu. Ya.

PINIGIN, A.F.; VYBOROV, G.P.; PETUKHOVA, O.S.; ISTOMINA, T.I.; YUZHKOVA, R.N.;
KORETS, B.V.; SVECHNIKOVA, L.D.; ZELIKMAN, Yu.Ya.; PADALKO, Z.P.;
MIKHALOVSKAYA, Ye.M.; KALMYKOVA, A.D.; KOSTERIN, V.V.; BEIKO, V.I.;
KOSTENKO; MUSIKHINA

Distribution of brucellosis in Eastern Siberia and the Far East.
Tez. i dokl.konf. Irk.gos.sauch.-issl.protivochum. inst.no.2:55-56
'57.

(MIRA 11:3)

(SIBERIA, EASTERN--BRUCELLOSIS)
(SOVIET FAR EAST--BRUCELLOSIS)

ZELIKMAN, Yu. Yu-

25(1)

PHASE I BOOK EXPLOITATION

SOV/1771

Fominykh, I.P., Yu. Yu. Zelikman, and V. Knyazev

Novoyev v liteynom proizvodstve; iz opyta liteynykh tsehkov predpriyatiy
Tuly i oblasti (New Developments in Foundry; Foundry practices in
Tula and Tula Province) [Tula]. Tul'skoye knizhnoye izd-vo, 1956.
78 p. 3,000 copies printed.

Ed. (Title page): I.P. Fominykh, Candidate of Technical Sciences;
Ed. (Inside book): M.N. Tylkin; Tech. Ed.: L.I. Pulin.

PURPOSE: This book is written in simplified technical language by specialists
in the field of casting for foundry workers and for the general public.

COVERAGE: This book contains articles describing recent developments and
innovations in foundry practice. The articles deal with a method of steel
casting which produces easily removed dead heads, chill casting of mining
machine parts, chill casting of bronze, and the utilization or resins for
mold mixtures. No personalities are mentioned. References are given at
the end of each article.

Card 1/2

New Developments in Founding (Cont.)

SOV/1771

TABLE OF CONTENTS:

Fominykh, I.P., Candidate of Technical Sciences. Easily Separate Dead Heads on Steel Castings	3
Zelikman, Yu., Chief Metallurgist, Laptev Plant "Uglemash". and Ye. Rubets, Senior Plant Engineer. Chill Casting in Building of Mining Machines	43
Knyazev, V., Technologist of Foundry Shop of MPS Plant. Chill Molds for Casting A Zh 9-A Bronze	55
Fominykh, I.P., Candidate of Technical Sciences. Casting in Shell Molds	70

AVAILABLE: Library of Congress (TS233.F63)

G0/gmp
6-25-59

Card 2/2

EL'GORT, V.M.; ZELIKMAN, Z.I.

Polarographic investigation of the suitability of quinhydrone preparation for pH measurement of glucose-phosphate solutions. Izv. vys. ucheb. zav.; pishch. tekhn. no.4:146-148 '61. (MIRA 14:8)

l. Sredneaziatskiy politekhnicheskiy institut, kafedra protsessov i apparatov.

(Polarography) (Quinhydrone) (Glucose phosphates)

ZELIKOV, A.

"Die Hauptrichtungen in der Projektierung von Walz- und Rohrwalzstraßen
in der UdSSR fragen der Neuen Technik über das Warm- und Kaltwalzen von
Schwarz- und Buntmetall."

8th Annual Meeting of the German Society of Miners and Metallurgists
6-8 Dec 62, Leipzig.

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CIA-RDP86-00513R001964410003-3

ZELIKOW, A. I. "Hilfmaschinen der Walzestrasse." Übersetzung aus dem Russischen. 8vo, pp. 297. Illustrated. Berlin, 1954: Verlag Technik. (Price DM. 58.-). M6

Translation of Title: Machine Aids of Mill Trains.

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CIA-RDP86-00513R001964410003-3"

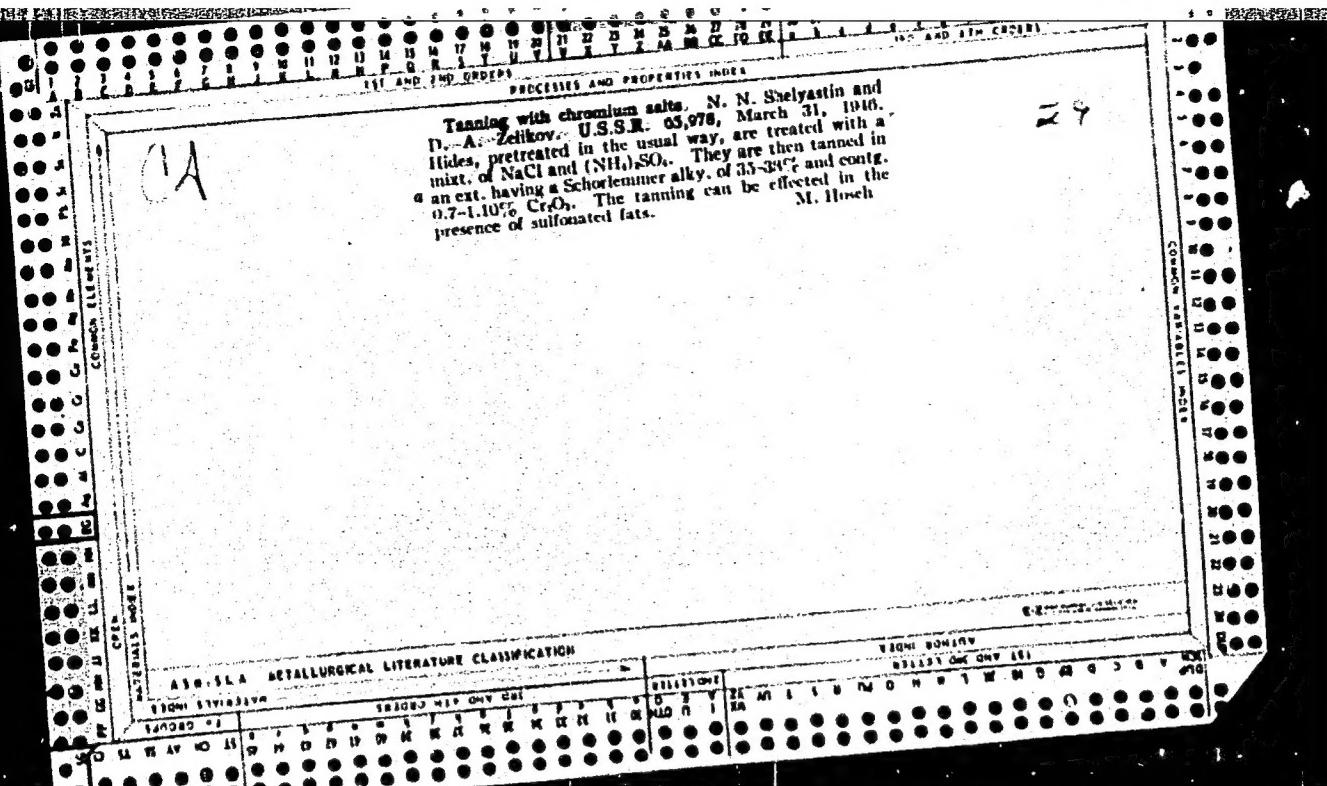
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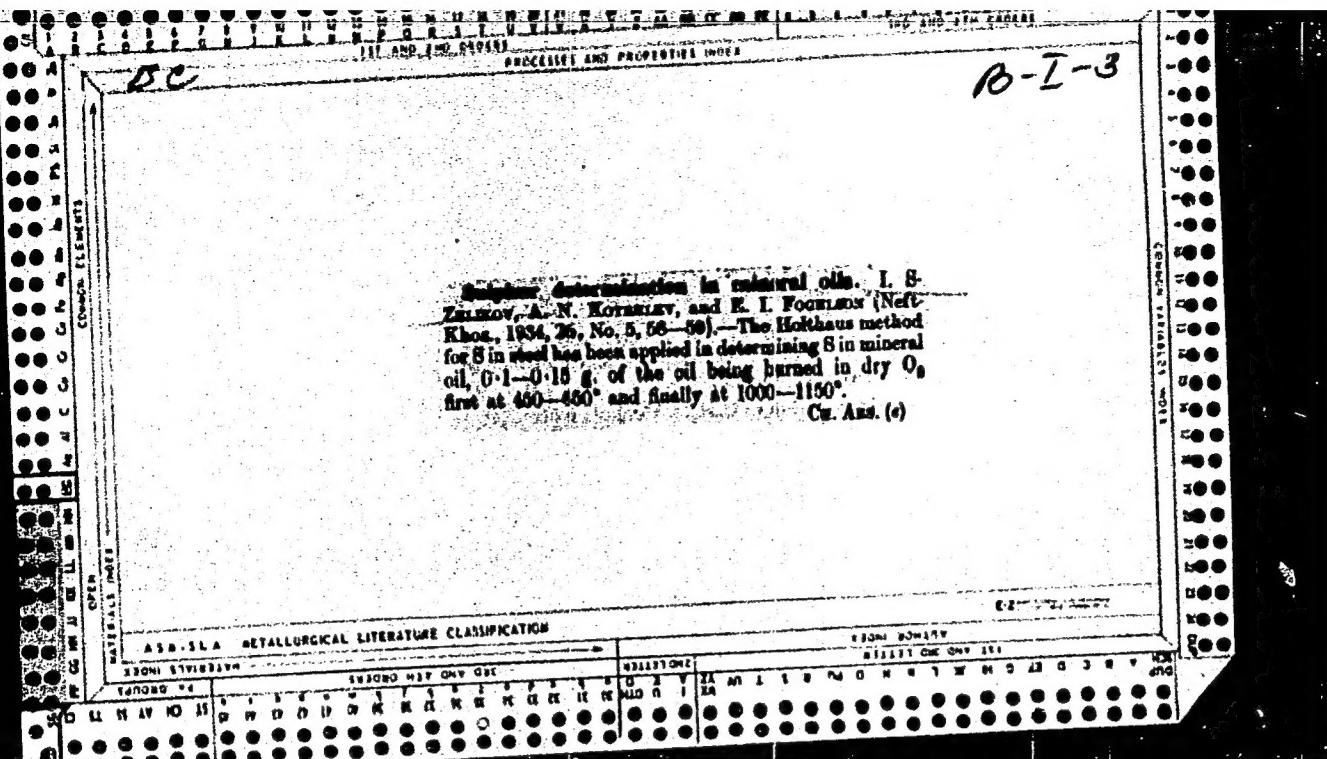
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CIA-RDP86-00513R001964410003-3"



ZELIKOV, A.I.

Talented efficiency promoter. Avt. dor. 22 no.5:19 My '59.
(MIRA 12:8)
(Roads) (Belik, Viktor Savel'evich)



APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001964410003-3"